KR 20-0283860

FIG. 1

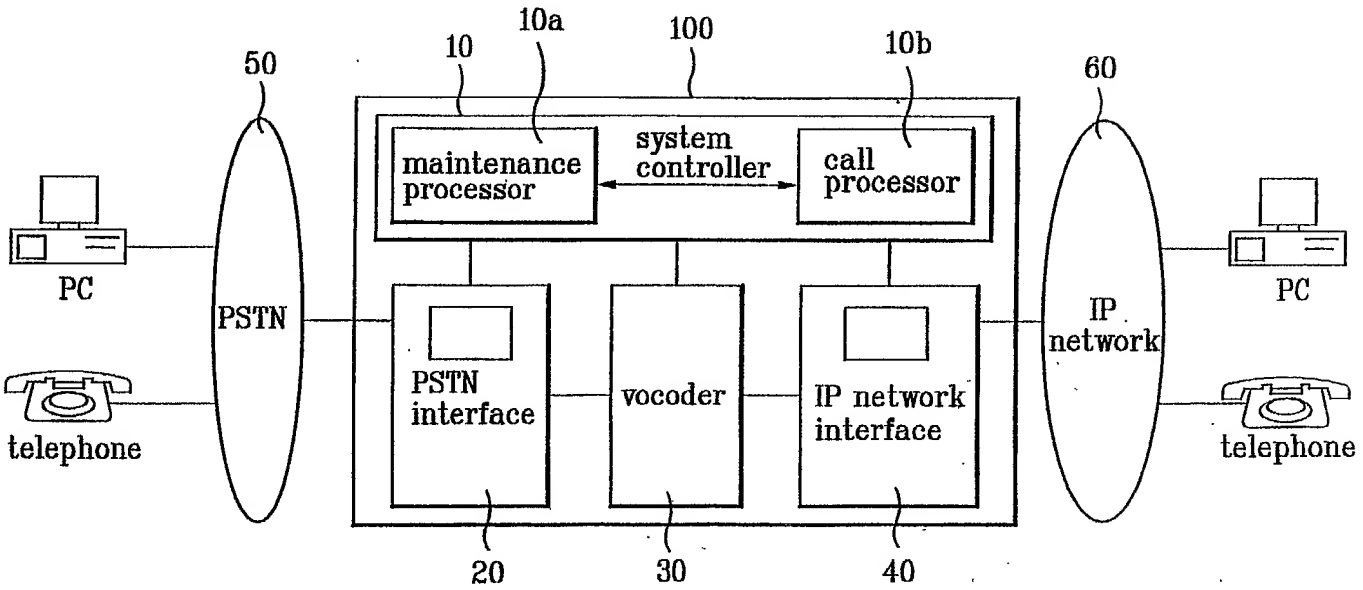

FIG. 2

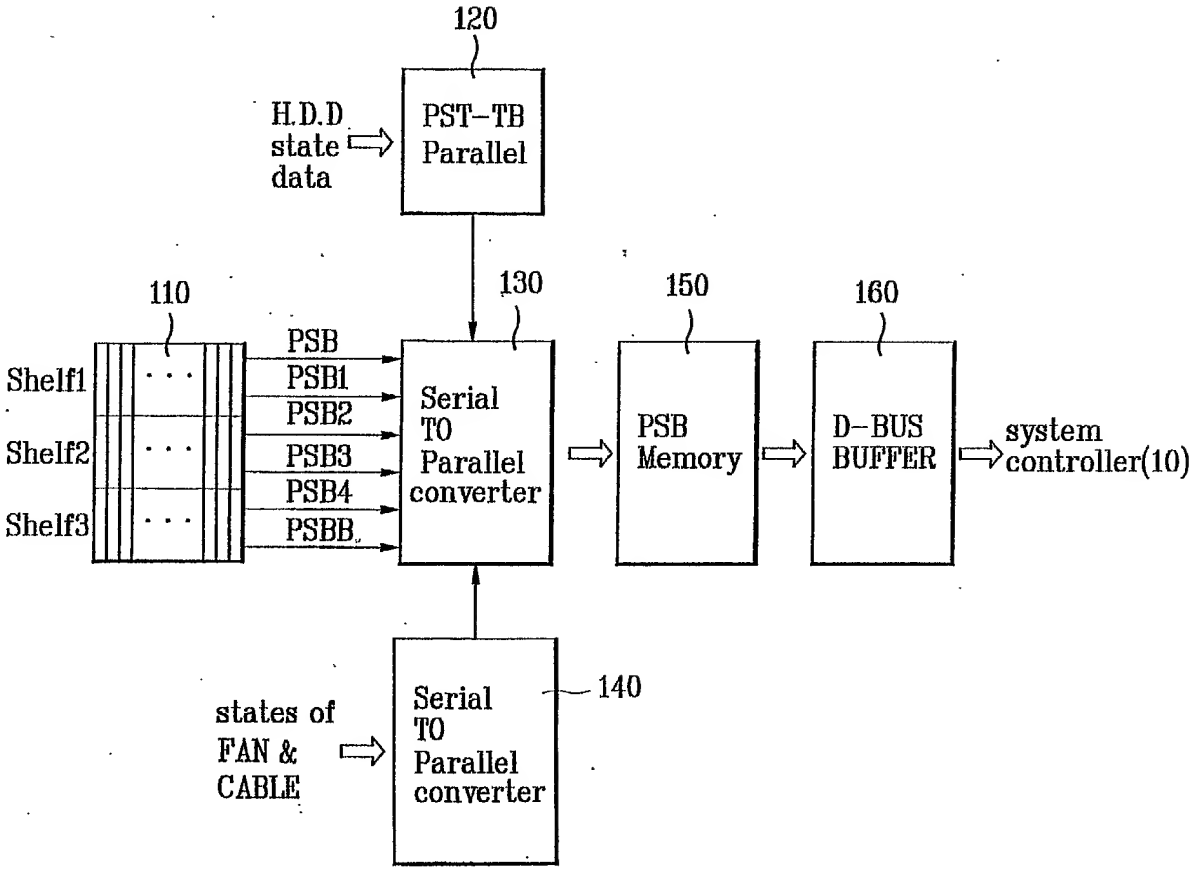
120
H.D.D state data
PST-TB Parallel
110
130
150
160
Shelf1
Shelf2
Shelf3
PSB
PSB1
PSB2
PSB3
PSB4
PSBB
Serial TO Parallel converter
PSB Memory
D-BUS BUFFER
system controller(10)
states of FAN & CABLE
Serial TO Parallel converter
140

FIG. 3A

	Add	b7~b4	b3~b0	Remarks
	0000	DPM1 LC2	DPM1 LC1	
	0001			DKU,PSU : PSB_TB conversion from PSB-TB to PSB
	0002	LC4	LC3	
	0003			
	0004	LC6	LC5	
	0005			
shelf	0006	LC8	LC7	
	0007			
		RDCC1	RDCC0	
			(HUBC)	
		DKU3,4	DKU1,2	
		PSU0,1	DKU5,6	
	0008	DPM2 LC2	DPM2 LC1	
	0009			
	000a	LC4	LC3	
	000b			
	000c	LC6	LC5	
	000d			
shelf	000e	LC8	LC7	
	000f			
		RDCC1	RDCC0	
			(HUBC)	
		DKU3,4	DKU1,2	
		PSU0,1	DKU5,6	
	0010	DPM3 LC2	DPM3 LC1	
	0011			
	0012	LC4	LC3	
	0013			
	0014	LC6	LC5	
	0015			
	0016	LC8	LC7	
	0017			
		RDCC1	RDCC0	
			(HUBC)	
		DKU3,4	DKU1,2	
		PSU0,1	DKU5,6	

EP 0 884 670 A2

FIG. 3B

Add	b7~b4	b3~b0	Remarks
0018	DPM4 LC2	DPM4 LC1	
0019			
000a	LC4	LC3	
000b			
000c	LC6	LC5	
000d			
000e	LC8	LC7	
000f			
	RDCC1	RDCC0	
		(HUBC)	
	DKU3,4	DKU1,2	
	PSU0,1	DKU5,6	
0020	CPM NIC2	CPM NIC1	DKU,PSU : PSB_TB conversion from PSB-TB to PSB
0021			
0022	NIC4	NIC3	
0023			
0024	EIOC1	EIOC0	
0025			
0026			
0027			
	ASCC1	ASCC0	
	NSPC3	NSPC2	
	RDCC1	RDCC0	
	PSU0,1	PSU1,2	

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FIG. 4

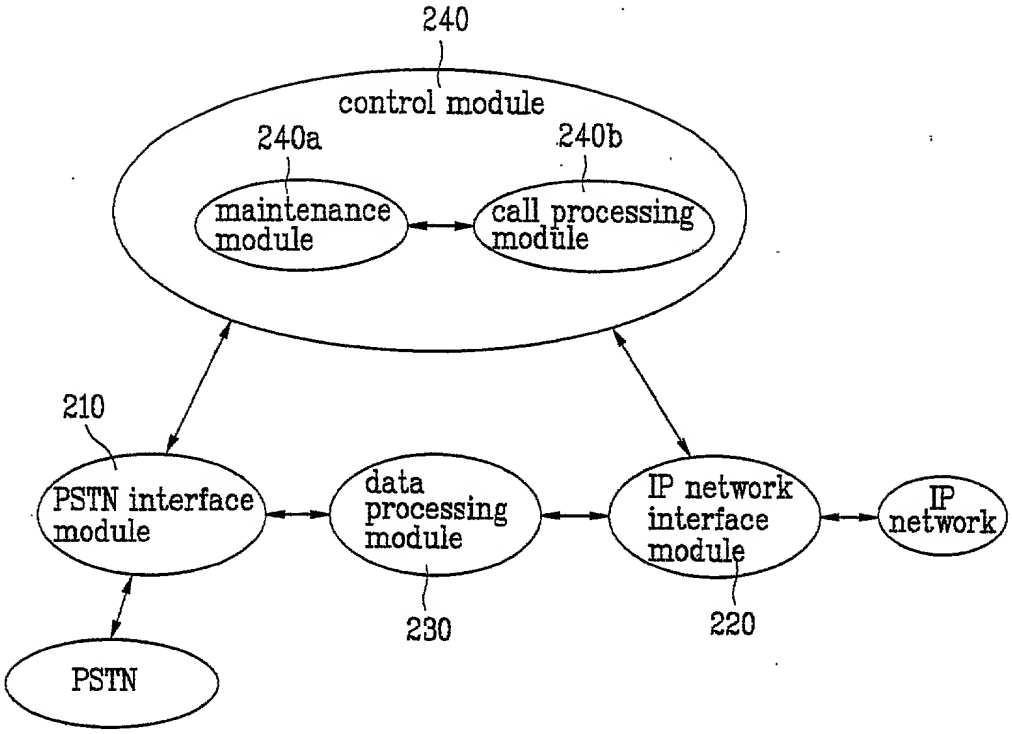

240
control module
240a
240b
maintenance module
call processing module
210
PSTN interface module
data processing module
IP network interface module
IP network
230
220
PSTN

FIG. 5

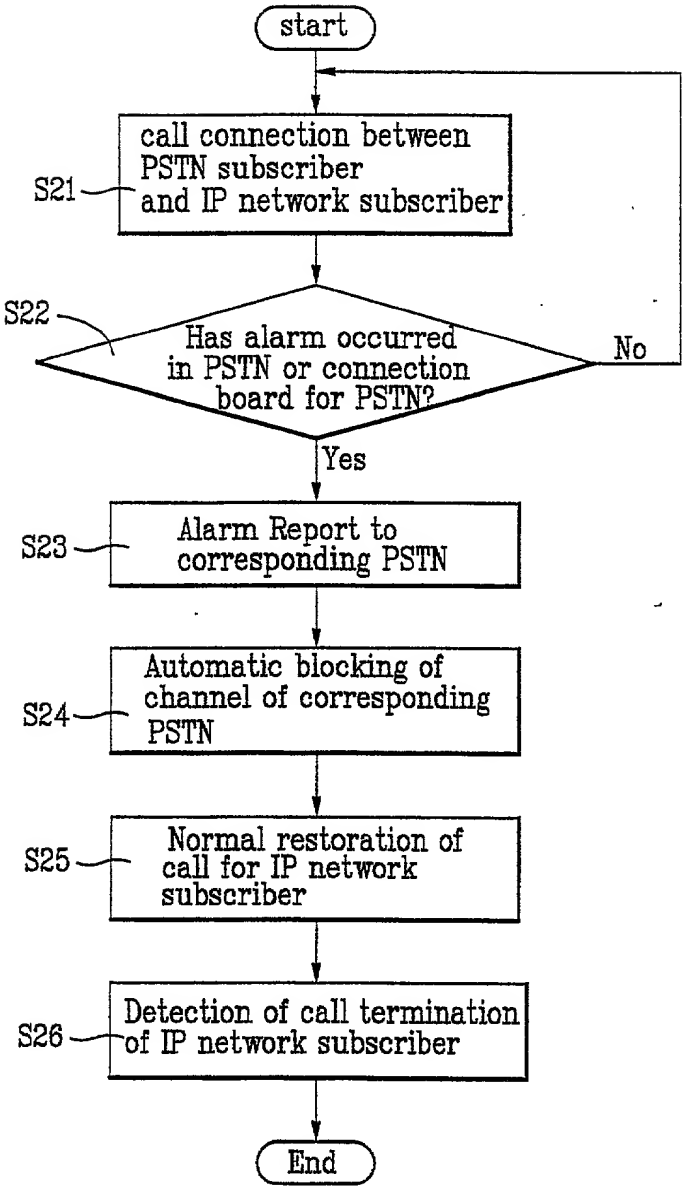

start
call connection between PSTN subscriber and IP network subscriber
S21
S22
Has alarm occurred in PSTN or connection board for PSTN?
No
Yes
S23
Alarm Report to corresponding PSTN
S24
Automatic blocking of channel of corresponding PSTN
S25
Normal restoration of call for IP network subscriber
S26
Detection of call termination of IP network subscriber
End

FIG. 6

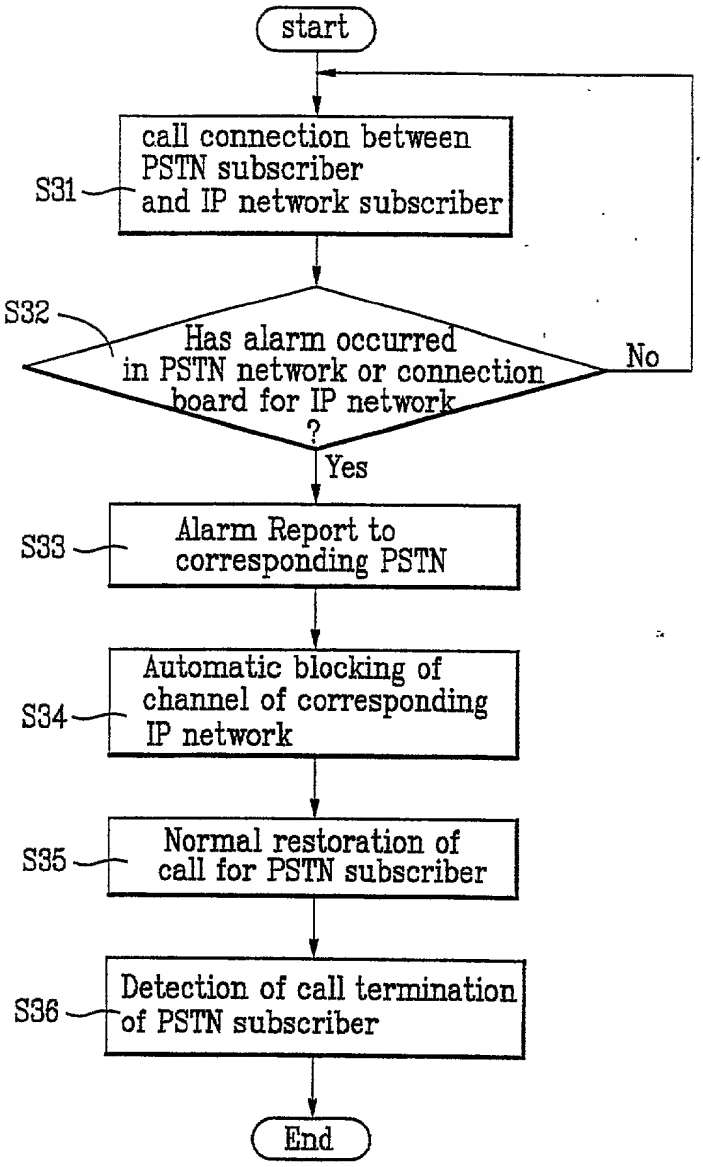

start
call connection between PSTN subscriber and IP network subscriber
S31
S32
Has alarm occurred in PSTN network or connection board for IP network ?
No
Yes
S33
Alarm Report to corresponding PSTN
S34
Automatic blocking of channel of corresponding IP network
S35
Normal restoration of call for PSTN subscriber
S36
Detection of call termination of PSTN subscriber
End

FIG. 7

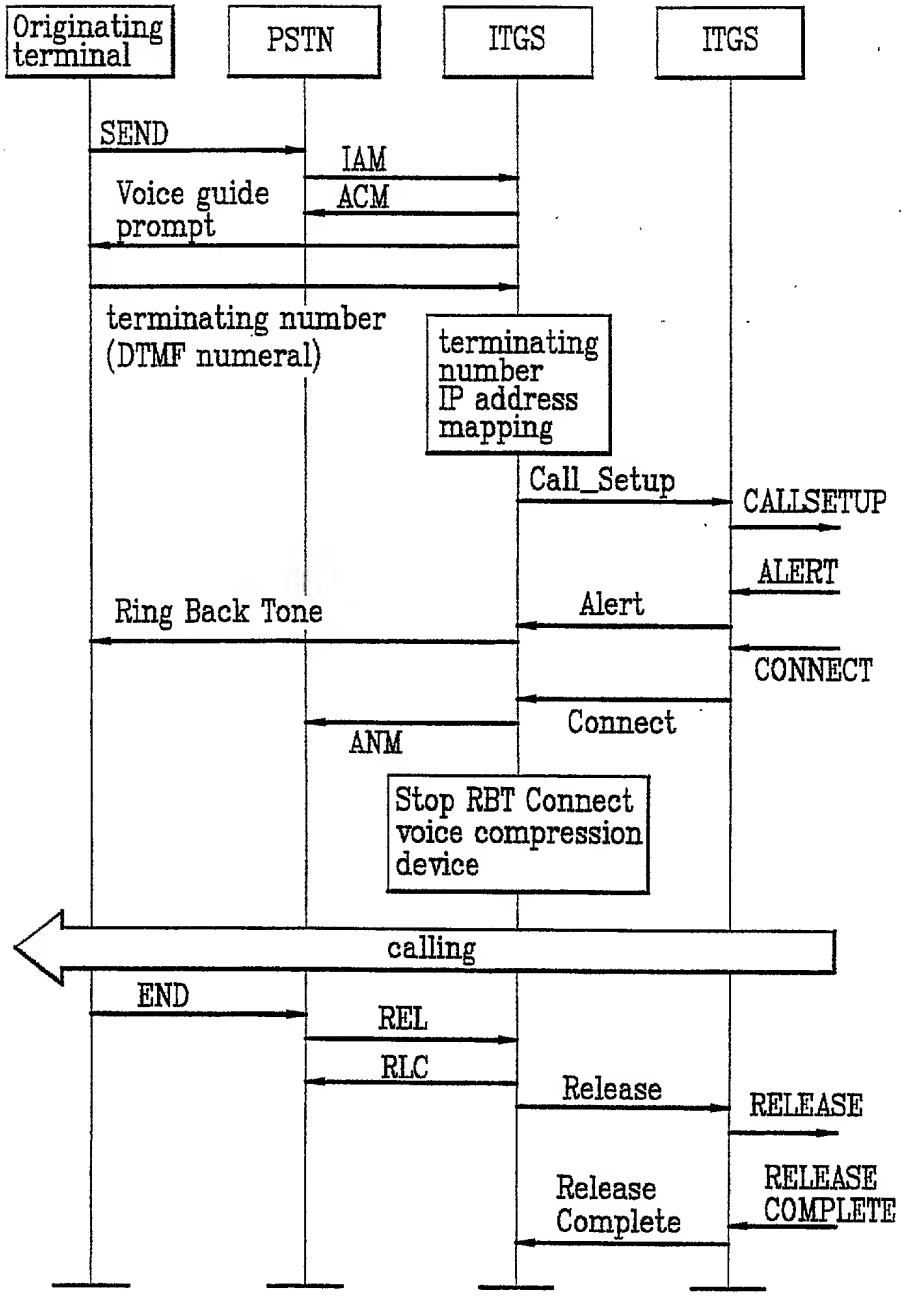

Originating terminal
PSTN
ITGS
ITGS
SEND
IAM
Voice guide prompt
ACM
terminating number (DTMF numeral)
terminating number IP address mapping
Call_Setup
CALLSETUP
ALERT
Ring Back Tone
Alert
CONNECT
Connect
ANM
Stop RBT Connect voice compression device
calling
END
REL
RLC
Release
RELEASE
Release Complete
RELEASE COMPLETE

FIG. 8

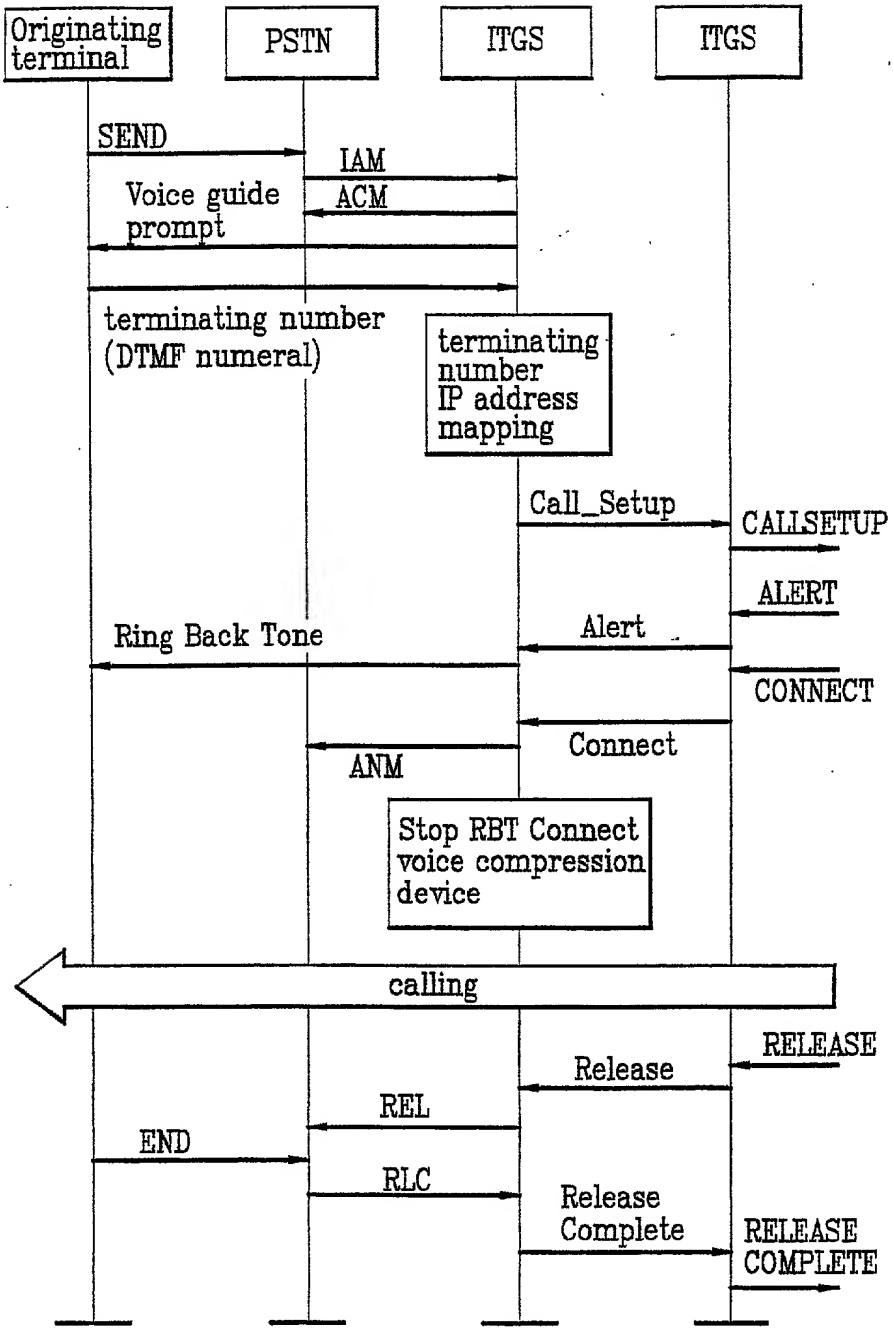

Originating terminal
PSTN
ITGS
ITGS
SEND
IAM
ACM
Voice guide prompt
terminating number (DTMF numeral)
terminating number IP address mapping
Call_Setup
CALLSETUP
ALERT
Alert
Ring Back Tone
CONNECT
Connect
ANM
Stop RBT Connect voice compression device
calling
RELEASE
Release
REL
END
RLC
Release Complete
RELEASE COMPLETE

FIG. 9

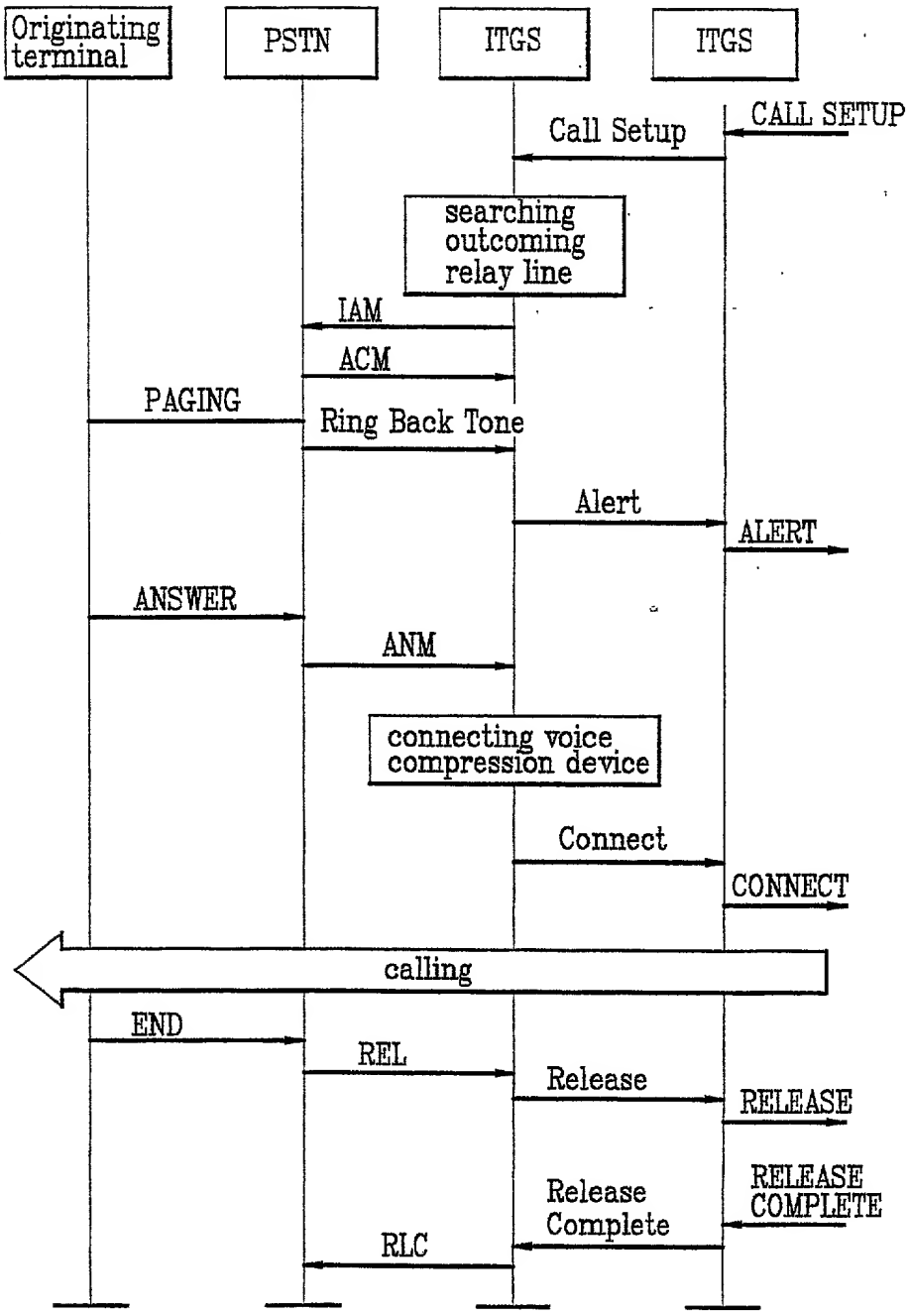

Originating terminal
PSTN
ITGS
ITGS
CALL SETUP
Call Setup
searching outcoming relay line
IAM
ACM
PAGING
Ring Back Tone
Alert
ALERT
ANSWER
ANM
connecting voice compression device
Connect
CONNECT
calling
END
REL
Release
RELEASE
RELEASE COMPLETE
Release Complete
RLC

FIG. 10

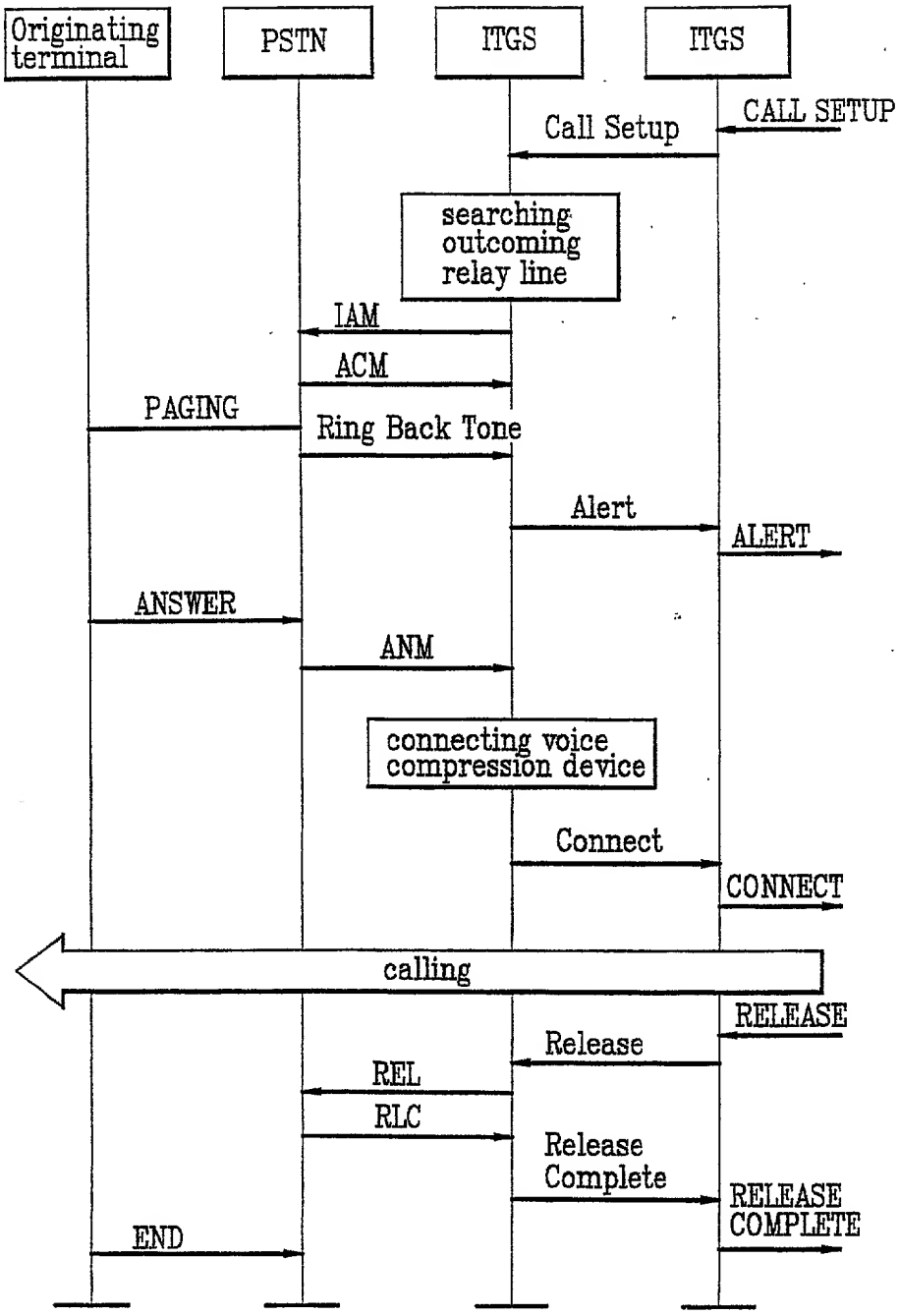

Originating terminal
PSTN
ITGS
ITGS
CALL SETUP
Call Setup
searching outcoming relay line
IAM
ACM
PAGING
Ring Back Tone
Alert
ALERT
ANSWER
ANM
connecting voice compression device
Connect
CONNECT
calling
RELEASE
Release
REL
RLC
Release Complete
RELEASE COMPLETE
END

FIG. 11

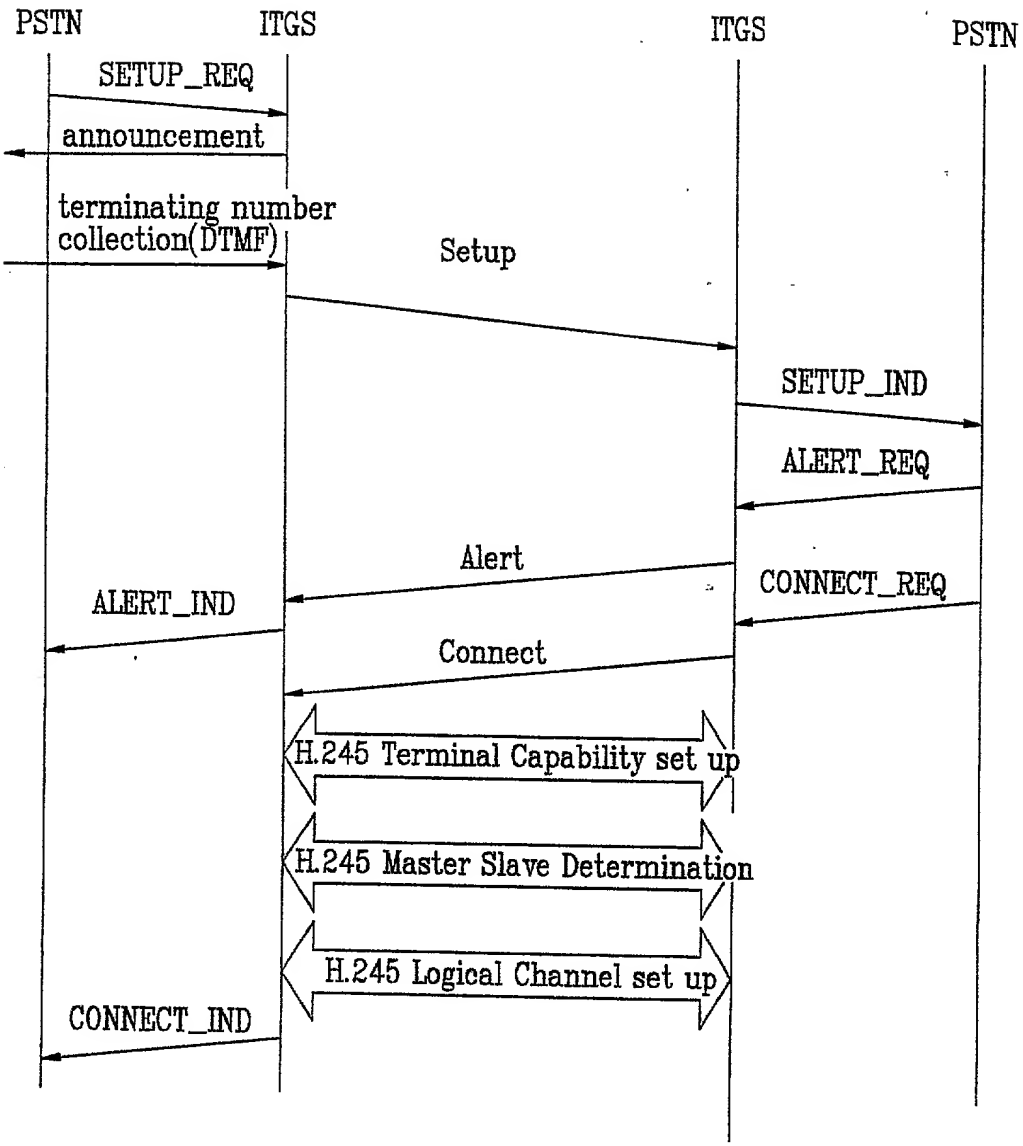
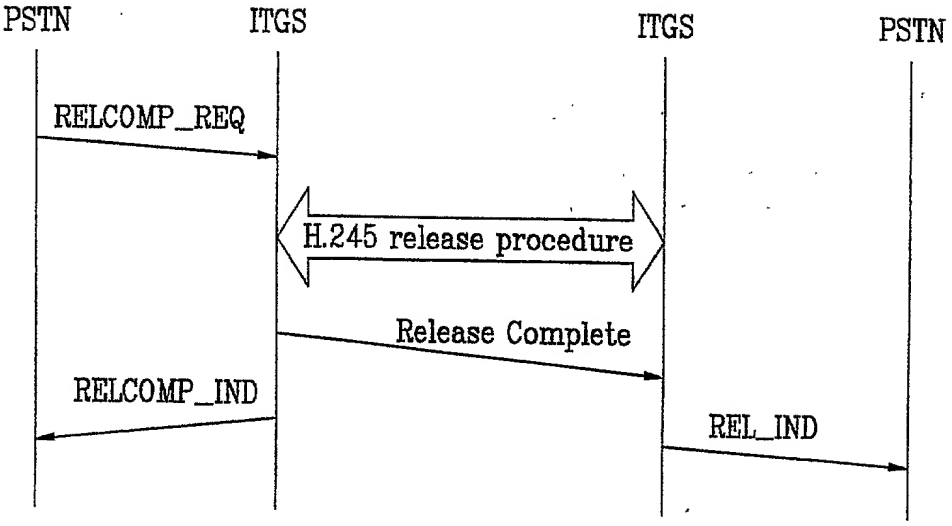

PSTN
ITGS
ITGS
PSTN
SETUP_REQ
announcement
terminating number collection(DTMF)
Setup
SETUP_IND
ALERT_REQ
Alert
CONNECT_REQ
ALERT_IND
Connect
H.245 Terminal Capability set up
H.245 Master Slave Determination
H.245 Logical Channel set up
CONNECT_IND

FIG. 12


PSTN
ITGS
ITGS
PSTN
RELCOMP_REQ
H.245 release procedure
Release Complete
RELCOMP_IND
REL_IND